

WO 2004/055178

10348.000-DK.ST25
SEQUENCE LISTING

<110> Novozymes A/S
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tang, lan
Duan, Junxin
Johannesen, Pia Francke

<120> Thermostable amylases

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<170> PatentIn version 3.1

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gcc gca aca agc ctt gca agc cct ttg ccc caa cag cag cga tat ggc 97
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ctt	aca	gat	cga	ttt	ggc	cgc	gcc	gat	gac	tca	aca	agc	aac	tgc	tct	193
Leu	Thr	Asp	Arg	Phe	Gly	Arg	Ala	Asp	Asp	Ser	Thr	Ser	Asn	Cys	Ser	
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Asn	Leu	Ser	Asn	Tyr	Cys	Gly	Gly	Thr	Tyr	Glu	Gly	Ile	Thr	Lys	His	
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Leu	Asp	Tyr	Ile	Ser	Gly	Met	Gly	Phe	Asp	Ala	Ile	Trp	Ile	Ser	Pro	
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Ile	Pro	Lys	Asn	Ser	Asp	Gly	Gly	Tyr	His	Gly	Tyr	Trp	Ala	Thr	Asp	
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Phe	Tyr	Gln	Leu	Asn	Ser	Asn	Phe	Gly	Asp	Glu	Ser	Gln	Leu	Lys	Ala	
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Leu	Ile	Gln	Ala	Ala	His	Glu	Arg	Asp	Met	Tyr	Val	Met	Leu	Asp	Val	
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Val	Ala	Asn	His	Ala	Gly	Pro	Thr	Ser	Asn	Gly	Tyr	Ser	Gly	Tyr	Thr	
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Ile	Ser	Glu	Met	Leu	Gly	Ser	Asn	Arg	Asn	Ala	Phe	Glu	Asp	Thr	Ser	
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 Leu Gly Glu Gly Ile Pro Ile Val Tyr Tyr Gly Ser Glu Gln Gly Phe
 315 320 325 330
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 Ser Gly Gly Ala Asp Pro Ala Asn Arg Glu Val Leu Trp Thr Thr Asn
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 Tyr Asp Thr Ser Ser Asp Leu Tyr Gln Phe Ile Lys Thr Val Asn Ser
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 Val Arg Met Lys Ser Asn Lys Ala Val Tyr Met Asp Ile Tyr Val Gly
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 Asp Asn Ala Tyr Ala Phe Lys His Gly Asp Ala Leu Val Val Leu Asn
 380 385 390
 aac tat gga tca ggt tcc aca aac caa gtc agc ttc agc gtt agt ggc 1297
 Asn Tyr Gly Ser Gly Ser Thr Asn Gln Val Ser Phe Ser Val Ser Gly
 395 400 405 410
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 Lys Phe Asp Ser Gly Ala Ser Leu Met Asp Ile Val Ser Asn Ile Thr
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 Thr Thr Val Ser Ser Asp Gly Thr Val Thr Phe Asn Leu Lys Asp Gly
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Thr Asp Arg Phe Gly Arg Ala Asp Asp Ser Thr Ser Asn Cys Ser Asn
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Leu Ser Asn Tyr Cys Gly Gly Thr Tyr Glu Gly Ile Thr Lys His Leu
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 Asp Tyr Ile Ser Gly Met Gly Phe Asp Ala Ile Trp Ile Ser Pro Ile
 60 65 70 75
 Pro Lys Asn Ser Asp Gly Gly Tyr His Gly Tyr Trp Ala Thr Asp Phe
 80 85 90
 Tyr Gln Leu Asn Ser Asn Phe Gly Asp Glu Ser Gln Leu Lys Ala Leu
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 Ile Gln Ala Ala His Glu Arg Asp Met Tyr Val Met Leu Asp Val Val
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 Ala Asn His Ala Gly Pro Thr Ser Asn Gly Tyr Ser Gly Tyr Thr Phe
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 Gly Asp Ala Ser Leu Tyr His Pro Lys Cys Thr Ile Asp Tyr Asn Asp
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 Gln Thr Ser Ile Glu Gln Cys Trp Val Ala Asp Glu Leu Pro Asp Ile
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 Lys His Ile Arg Lys Asp Phe Trp Thr Gly Tyr Ala Glu Ala Ala Gly
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 Gln Ser Asp Lys Ala Leu Phe Lys Asn Ala Leu Thr Tyr Val Leu Leu
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Gly Gly Ala Asp Pro Ala Asn Arg Glu Val Leu Trp Thr Thr Asn Tyr
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Arg Met Lys Ser Asn Lys Ala Val Tyr Met Asp Ile Tyr Val Gly Asp
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